PROJECT DESCRIPTION

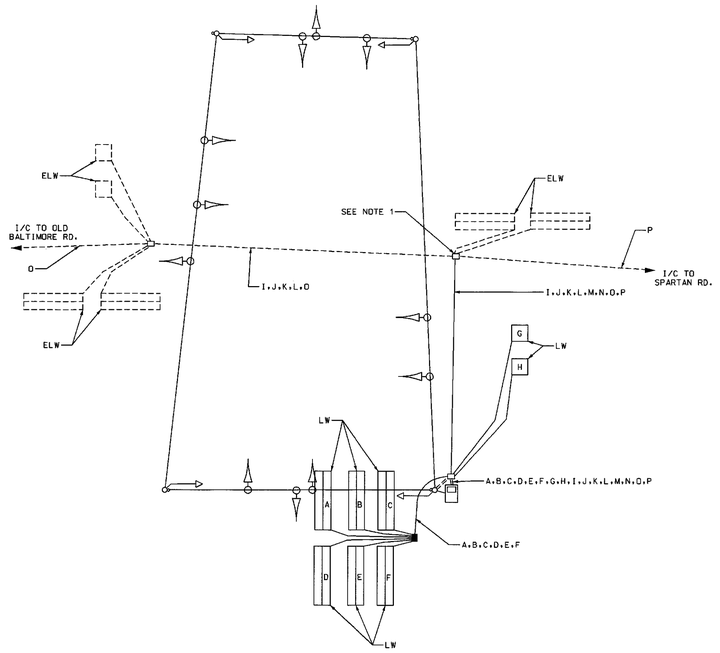
THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 97 AND HINES RD./PRINCE PHILLIP DR. IN MONTGOMERY COUNTY. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THIS WORK IS NECESSITATED BY WIDENING THE PRINCE PHILLIP DRIVE APPROACH AND WILL INVOLVE THE INSTALLATION OF DETECTORS, CONDUIT, WIRING, PAVEMENT MARKINGS AND SIGNING.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE CONTROLLER CURRENTLY OPERATES AS A FIVE PHASE SEMI-ACTUATED CONTROLLER AND WILL NOT BE CHANGED.

INSTALL ONE-FOUR CHANNEL LOOP DETECTOR AMPLIFIER INTO THE EXISTING BASE MOUNTED CABINET.

WIRING DIAGRAM



WIRING KEY

A–H	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
I–N	EXISTING 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
O–P	EXISTING INTERCONNECT CABLE
LW	LOOP WIRE (NO. 14 A.W.G.)
ELW	EXISTING LOOP WIRE

NOTES

1. DISCONNECT EXISTING 2-CONDUCTOR CABLES AND INTERCONNECT CABLES FROM THE CONTROLLER. REMOVE THEM FROM THE EXISTING CONDUIT TO BE CAPPED AND ABANDONED AND REINSTALL THEM INTO THE NEW CONDUIT.
2. UNLESS OTHERWISE NOTED, ALL EXISTING WIRING WILL BE USED.

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5002	200 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5003	20 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5004	10 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
5005	8 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING LETTER
5006	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING LEFT ARROW
5006	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING RIGHT ARROW
8021	670 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8022	60 LF	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT-GALVANIZED STEEL
8023	40 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8024	30 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8031	90 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8033	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8040	2500 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	310 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8051	60 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS - 4 IN. X 6 IN.
8060	1 EA	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT
----	1 EA	FURNISH AND INSTALL R3-5R SIGN (30 IN. X 36 IN.) SPAN WIRE MOUNT
----	1 EA	FURNISH AND INSTALL R3-5L SIGN (30 IN. X 36 IN.) SPAN WIRE MOUNT
----	1 EA	FURNISH AND INSTALL FOUR CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
----	2 EA	FURNISH AND INSTALL R3-7R SIGN (30 IN. X 30 IN.) GROUND MOUNT
----	2 EA	FURNISH AND INSTALL R3-7L SIGN (30 IN. X 30 IN.) GROUND MOUNT
----	880 LF	REMOVE AND REINSTALL EXISTING CABLE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 97 AND HINES RD./PRINCE PHILLIP DR.

DRAWN BY: T.M.Z	F.A.P. NO.	TS NO. 3074 GI	SHEET NO. 2 OF 2
CHECKED BY: K.W.S	S.H.A. NO.		
SCALE: NONE	COUNTY: MONTGOMERY	T.I.M.S. NO.	
DATE: 8-9-00	LOG MILE:		